### **BRAIN PUZZLERS**

Questions Submitted at the Examination of Teachers

#### MADE UP BY STATE COMMISSIONER

To Test the Qualifications of Those Who Wield the Ferule In the Public Schools For the Education of the Growing Generation.

Following is the list of questions as prepared under direction of the state commissioner of public schools, and submitted at the county examination of teachers Feb. 2 for elementary school certificates.

#### THEORY AND PRACTICE.

The first five questions are based on "Rational Living" by Henry C. King. 1. Into what three classes does King divide temperament? In each lies what tendency against the symmetrical devel-opment of character?

2. What new light do King's remarks upon the asceticism of the body throw upon the teacher's practice and teaching of physiology?

3. What does Augustine Birrell mean by "truth-hunting?" What danger lies in this direction?

4. Can you even passingly indulge in false emotions and experience no evil Name some other cautions with regard to thought and conduct which knowledge of "the unity of the mind" imposes on you?

5. Do we make our environment or does our environment make us? Ex-

6. What book on teaching has helped you most? How has it helped you? 7. Why should the teacher pay attention to the personal habits of his pupils as well as to their habits of

8. In reading, which do you prefer, to have pupils read from their seats or come forward as a class? Why?

9. In what period of the day's program would you place arithmetic? What is the particular value of oral

10. Give one educational idea of Rousseau; Froebel.

#### GRAMMAR.

Sir, I think you must perceive that I am resolved this day to have nothing at all to to with the question of the right of faxation. Some gentlemen startle— but it is true; I put it totally out of the question.—Speech of Conciliation, Burke.

The first six questions refer to the selection given above.

1. Name all phrases and classify them as substantive, adjective or ad-

2. Give the antecedents of two personal pronouns of the third person. 3. Give the mood, tense and voice of all finite verbs. 4. Classify the sentences with re-

spect to form and use. Give the conatruction of that and but. Parse Sir, day, at all, totally.

6. Analyze the first sentence by di-7. Define syntax, substantive, ab-

stract noun. 8. Explain the use of the participle in each of the following sentences: (a) By the giving of my usual signal, I dismissed the class; (b) At a given signal, the class was dismissed; (e) A signal being given, the class was dismissed; (d) Giving a signal, I dismissed the class.

### ARITHMETIC.

1. Find the L. C. M. of

254, 3, V8/27 and .05.

A man bought a horse for \$150. How much must be ask for the horse so that he can fall 1212% and still make 20% profit? 3. A cubic foot of water weighs

about 62 lbs, 8 oz. At that rate, how much does a barrel of water weigh? 4. If stock bought at 20% premium pays 5% on the investment, what would it pay if bought at 20% discount?

5. Find the side of a square that would be equal in area to a trapezoid whose parallel sides are 16 ft. 8 in, and 20 ft. 4 in., and whose altitude is 8 ft?

6. When it is Manday, 7 a. m., at San Francisco, longitute 122\* 24' 15" W., what day and time of day is it at Berlin, longitude 13° 23' 55" E.? 7. A consignee sells \$6,742 worth of

woolen goods, charging 215% commission and 134% for insuring payment. What sum will be pay over to the con-8. If 468 bricks, 8 inches long and 4

inches wide, are required for a walk 26 feet long and 4 feet wide, how many bricks 6 inches long and 414 inches wide, will be required for a walk 120 feet long and 5 feet wide?

9. Define sprime number; repetend; sirculating decimal. 10. On a note dated Aug. 15, 1885.

for \$3500, were the following indorsements: Oct. 10, 1883, \$320; Feb. 5, 1886, \$476; Apr. 20, 1886, \$525; June 24, 1886, \$700. What amount was due Aug. 3, 1886, at 7% ?

### WRITING.

For this branch examiners will grade

the manuscript in orthography,

### ORTHOGRAPHY.

1. What letters of the alphabet are sometimes called liquids? Why are they so called?

2. What name do you apply to words of one syllable? Two syllables? Three syllables? More than three syllables? Divide the following into syllables? Divide the following into sylla-Arabian, liquefy, religious, court-

Define the following: derivative secondary accent, breve. 4. Write two homonyms of isle, air,

corse, fane and idle. 5. Mention three arguments either in favor of or against "simplified spelling." 6. These words are to be pronounced

by the examiner: palatial, oracale, physics, hoping, rumored; racial, coroner, affidavit, cuticle, excise; interment, negroes, Japanese, plaid, Vesuvius; dirge, dirigible, kerosene, phychology, pagan; frugality, rebate, hemorrhage, adage, auricle.

UNITED STATES HISTORY IN-MQ CIVIL GOVERNMENT.

1. (a) Name two beliefs concerning the nature of the globe that were held by Europeans of Columbus' time.

(b) Name two causes that led to the establishment of settlements in America. 2. What part of America was ex-plored by Balboa, Cabot, Lewis and Clark? Give the approximate date of the explorations of each. 3. In the Revolution, how did the

British plan to get possession of the South? Why did their plan fail? 4. Discuss briefly: British imprisonment of American seamen under Wash-ington's administration.

5. When was the Louisiana Purchase made? Name four states formed from this territory.

6. Why would it have been inadvisable for Lincoln to issue the Emancipation proclamation earlier than in

7. Give an account of one of the fol-lowing: the battle of New Orleans (1815); the capture of New Orleans

8. What is meant by "the spoils system!" When was it introduced? What was the attitude of President Hayes toward this system?

9. Explain the process of naturali-10. When and how did Hawaii come to be annexed to the United States?

#### GEOGRAPHY.

1. Locate the Tropic of Capricorn; the Antarctic Circle. Over what por-tion of the earth are the sun's rays vertical on June 21st?

2. Compare and account for the difference in, the climate of the east and west coasts of the United States. 3. Bound: Canada on the south; Russia on the west; Brazil on the

4. What are isothermal lines? Why are they not parallel?

5. What is a water-shed? A river basin? An estuary? Give an illustration of each in South America. 6. With fegard to the State of Washington, note: its elevation, its elimate, its railroad connections with the

east, its exported products, In what ways could you make a comparison of the islands of New Zealand and Madagascar valuable to a geography class?

8. What political relations now exist between the United States and Hawaii? Philippine Islands? Cuba?

9. In Ohio, what and where is each of the following: Adena, Maumee, Serpent Mound? 10. Name three cities on each of the following rivers and state one important fact concerning each: Danube, Missis-

#### LITERATURE.

1. What methods do you believe best adapted to the study of literature in the grammar secols?

2. Trace in early American litera-ture some influences of its English 3. Name two American writers who

exerted a strong influence for the abolition of slavery. How? 4. What do you understand the term

"Literature" to include? What benefit have you derived from the study of lit-erature? 5. What qualities of Longfellow's

poetry do you particularly admire? Mention two of his early poems; two of his translations. 6. To what class of fiction does each of the following books belong: The Spy, Romola, The House of Seven Gables

Tom Sawyer, The Murders in the Rue Morgue? Who wrote each of these books ! 7. Select five names from the follow ing and state for writings in what de-partment of literature each is famous: Louisa May Alcott, Edmund Clarence Stedman, Francis Parkman, John Bur-

wards, Mark Twain. 8. State your reasons for assigning to Nathaniel Hawthorne a prominent place in American literature.

roughs, James Cowper, Jonathan Ed-

9. Write briefly upon the personal characteristics of one of the following: Samuel Johnson, Thomas Carlyle, Walt Whitman.

10. Is it essential that every teacher of literature should be familiar with Shakespeare? Why, or why not?

### PHYSIOLOGY.

1. Explain the difference between the structure of the bones in youth and in old age. Name the bones of the skull. Explain physiologically the statement: "The body is the only machine that oils itself."

 What is the function of the red corpuscles of the blood? What office do the veins perform in circulation? How do they differ in structure from the arteries?

4. Of what organ is the pancreatic juice a secretion, and what office does it perform in the digestion of food? Jpon what classes of foods does the gastric juice have no effect?

5. Liken the nervous system to that of a telegraph. How do the systems differ ?

6. Give the structure of the retina of the eye. How are rays of light brought to focus upon it?

7. Define each of the following: tympanum, coccyx, cornea, saliva, pia mater and pleura.

8. Why will tobacco increase a tendency toward consumption? What is the effect of alcohol upon the digestion?

### READING.

Examisers will conduct an oral exammation is meding.

In Sympathy

Eva - Gracious, Katharine, you are going through that novel at the rate of a mile a minute. Don't read so fast!

Katharine-I have to, dear. The hero and heroine are in an automobile.-Detroit Tribune.

#### Not Improbable. "All I lack," said the would be

poet, "is the power of expression. There's poetry in me, and I mean to bring it out before I die." "Perhaps," replied the cynic, "it'll

kill you before you get it out of your system."-Puck.

### All Pleased.

"I hear your club is going to give an entertainment. Do you think it will be a success?"

"Sure to be! We've arranged it of some committee or other." -Philadelphia Ledger.

#### CONDENSED STORIES.

How Senator Call Aroused the Ire of an Admirer of Burns.

Former Senator Call of Florida, who immortalized himself by taking off a tight shoe in the senate chamber one day and hoisting a huge foot, clad in a blue varu sock, on his desk, heard from other senators early in his term that Superintendent Smith of the botanic gardens gave palms and potted plants to statesmen he liked. Call wanted some palms, and he

cast about for a way to get on the right side of Smith. Somebody told



"KEN YE BURNS?" ASKED SMITH.

him Smith was a great admirer of Burns and had a fine collection of Burns' manuscripts and editions.

That was Call's cue. He walked over to the garden, found Smith and talked of many things. At the proper time, delicately and unobtrusively, he introduced the subject of Burns.

"There was the poet," he said. For fine sentiment he has them all beaten. I read my Burns every

"Ken ye Burns?" asked Smith,

much interested. "I should think I did," proclaimed the enthusiastic Call. "Why, I know most of his poems by heart. They can have their other poets, but as for me, give me Jimmie Burns"-

"Jimmie Burns!" snorted the enraged Smith. "Jimmie Burns! Augh! Billie Washington! Charlie Napoleon! Sammie Jefferson! Get out of me sight, ve ignoramus!" And Call never did get his palms. -Saturday Evening Post.

Wellman's "Cold Feet." In those ancient days Walter Wellman, even then a hunter after the north pole, was one of the most assiduous of the players that assembled every night in the poker room of the Press club. Mr. Wellman was ever a cautious player, and it was the irritated and annoyed Colonel Sterrett who spread continuously the rumor that Mr. Wellman was a man who could be easily induced to quit the game when his stack of chips had grown to respectable proportions. Colonel Sterrett declared that he had made a list of the excuses offered by Mr. Wellman for breaking away from the game while still a winner and that Mr. Wellman had never repeated him-

It was while Mr. Wellman was preparing for one of his dashes for the pole that he met Colonel Sterrett in Shoemaker's and insisted on telling at great length of the preparations he had made for resisting the arctic cold. Quite a little crowd gathered and listened attentively. Then Colonel Sterrett spoke.

"Walter, you have told us with great circumstantiality of the method to be adopted by you to prevent your face being frozen," said Colonel Sterrett. "That is the last thing that concerns us. What we want to know, Walter, is how in thunder you are going to keep your feet warm?"—New York Telegram.

### Is Only Plain Congressman.

Senator Beveridge was talking one afternoon in Washington to a group of newly elected congress-

"You boys," he said, "must on no account appear green. Keep cool, go slow, think before you speak. Then you won't give yourselves away.

The unripe congressmen laughed, and Senator Beveridge continued: "I should hate to hear that one of you had acted as a new southern congressman once did.

"He as soon as he reached Washington went off to a photographer's to be photographed. 'I want my likeness taken,' he said. 'Cabinet?' the photographer asked. The southerner reddened and looked pleased. everyday congressman." - Buffalo

### The Smoke Nuisance.

A new and simple proceeding to cope with the smoke nuisance, invented by a Munich mechanic, consists of a series of small tanks filled arrangement smoke and soot are so that every member is chairman absorbed by the water, the remaining gases escaping in the form of a small transparent cloud of white

#### SERPENT POISON.

The Venom of the Cobra Is Deadly Al-

most Beyond Belief. It was in the autumn of 1891 that Caimette, while acting as director of the Bacteriological institute of Saigon, Cochin China, first commenced his experiments on the neutralization of serpent venom in the animal system. He had exceptional opportunities in the matter of serpent venom wherewith to carry out his investigations, imstrauch as a band of cobras had recently attacked a village in the vicinity of Baclieu, and by order of the governor of the district no fewer than ninety specimens of the terrible Nuja tripudians, or cobra de capello, were forwarded in a barrel to the

Forty of the reptiles arrived

alive, and several were at once sacrificed to secure their venom glands. Each gland, resembling both in size and shape a shelled almond, contains about thirty drops of venom, and in this transparent limpid liquor is embodied a toxin of extraordinary strength. As is well known, this cobra is the most dreaded of all serpents, and it is widely distributed over India, Barma, Sumatra, Java, Malacca and Cochin China. Until Calmette, however, set to work to systematically study the nature of this reptile's venom but little precise or reliable information had been obtained as to its character. It was, of course, necessary in the first instance to ascertain, within as narrow a limit as possible, the exact degree of toxic power inherent in the venom and to determine if possible the precise dose lethal in respect of each varie-

ty of animal experimented upon. A correct calculation of the quantity of venom required in every case was, however, found to be quite impossible, for so virulent is the poison that a single drop of an emulsion produced by pounding up eight glands in 300 grams of distilled water is sufficient, when introduced into the vein of a rabbit's ear, to kill it in five minutes. All the mammals to which Calmette administered this cobra venom, such as monkeys, dogs, rabbits, guinea pigs and rats, succumbed more or less quickly, according to the size of the dose. - Westminster Gazette.

High Priced Bumblebees. Many years ago the farmers of Australia imported bumblebeesfrom Figures in the second column show England and set them free in their clover fields. Before the arrival of the bees clover did not flourish in named and this paper will both be Australia, but after their coming the farmers had no more difficulty on that score. Mr. Darwin had shown that bumblebees were the only insects fond of clover nectar which possessed a probose sufficiently long to reach the bottom of the long, tubelike flowers and at the same time a body heavy enough to bend down the clover head so that the pollen would fall on the insect's back and thus be carried off to fertilize other flowers of the same species. The bumblebees sent to Australia cost the farmers there about half a dollar apiece, but they proved to be worth the price.

The Very Earliest Coins. No one knows exactly when or where the original coin was 'struck" or what metal was used. Certain passages in Homer would lead to the inference that brass was coined as early as the year 1184 B. C. Tradition affirms that the Chinese had bronze coins as early as the year 1120 B. C., but Herodotus, the acknowledged "father of history," is of the opinion that the Lydians "invented" coins some time during the ninth century B. C. One of the oldest coins now known is a gold daric, coined by the Persians during the reign of Darius. On one side of this coin is a bust of Darius and on the other side a

figure of a kneeling archer. Mugwump, "Mugwump" was an old Algonquin word for a chief, which was used in a seventeenth century Indian Bible to translate "centurion," "captain" or "duke" in the English version. It was borrowed by the New Englanders as a nickname for most superior persons, very like the English "great panjandrum," and first applied in its special political sense to Republicans who deserted their party on grounds of principle at the presidential election of 1884.

Gum Shoe Work.

"James!" she said severely. The butler looked up with

guilty flush. "James," she asked, "how is it that whenever I come into the pantry I find your work at sixes and tevens and you sprawled out reading

the news?" "Well, ma'am," the butler answered, "I should say it was on account of them old rubber soled ten-'No,' he answered, 'just a plain nis shoes you're always wearin' about the house."

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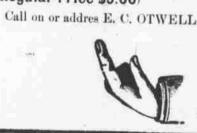
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